



Ontario

Ministry
of the
Environment

Water Resources
Bulletin
Ground water series

Hon. Harry C. Parrott, D.D.S., Minister
Graham W.S. Scott, Q.C., Deputy Minister

ATLAS
OF OBSERVATION WELLS
IN ONTARIO
1980

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**WATER RESOURCES
BULLETIN**
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**ATLAS
OF OBSERVATION WELLS
IN ONTARIO
1980**

MINISTRY OF THE ENVIRONMENT

Water Resources Branch

TORONTO

ONTARIO

1980

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Parts of this publication may be quoted if credit is given. It is recommended that reference to this bulletin be made in the following form:

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Every possible effort is made to ensure the accuracy of the information contained in this publication. Verification of any suspect data may be obtained by contacting the Hydrology and Monitoring Section, Water Resources Branch, Toronto (965-6995).

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INTRODUCTION

A network of observation wells has been established in Ontario by the Ministry of the Environment to provide data on fluctuations of ground-water levels. This atlas shows the locations of observation wells currently in operation in this network, and can be used to determine where observation well information is available.

THE OBSERVATION WELL NETWORK IN ONTARIO

Observation wells were originally established in the Province during the late 1940's. Abandoned or disused domestic and municipal wells were used for observation well purposes. Initially, water-level measurements were obtained manually; during the 1950's and 1960's most wells were equipped with water-level recorders; in the 1970's electronic data processing methods were adopted to enhance data analysis and presentation. Over the years, many wells have been abandoned and others have been added in response to changing data requirements. The network at the beginning of 1980 contained approximately 100 observation wells.

Each observation well in the present network has been categorized according to its purpose. Type I wells show natural, background fluctuations in water levels, and indicate ground-water levels as they occur under non-pumping conditions. These wells are classed as "index" wells to determine characteristic water-level fluctuations in a variety of different hydrogeologic settings. Type II wells are oriented to water management objectives related to changes in water levels caused by high-production municipal or industrial pumping. Data from Type II observation wells are essential in assessing and preventing water-supply shortage problems caused by excessive withdrawals. Type III wells are related to ground-water resources inventory and special interest studies. These wells provide data not only for use in resources inventory projects, but also in special projects usually related to questions of water-level interference in wells and other complaint issues dealt with by the Ministry's Regional offices.

The main function of each well in the network will fall within one of the above three categories; however, some wells may serve a multi-purpose function.

The operation and maintenance of the observation well network is shared by the Ministry's Regional offices, in conjunction with the Water Resources Branch in Toronto. Field maintenance and servicing of each observation well are carried out by the respective Regional office, whereas the basic network planning and review, data processing, analysis, and publication are functions of the Water Resources Branch.

An annual review of the network is carried out to ensure that all data collected are useful and meaningful within the context of the network objectives.

PREPARATION OF NETWORK MAP SHEETS

The maps in this atlas are grouped according to the Ministry of the Environment's six Regional areas. Two index maps (pages 4 and 5) show the areas covered by the well location maps in each Region. The wells on the maps are shown according to type and according to well construction. The maps are based on the National Topographic Series maps at a scale of 1:250,000, and for purposes of this report, have been reduced to about 40% of the original size.

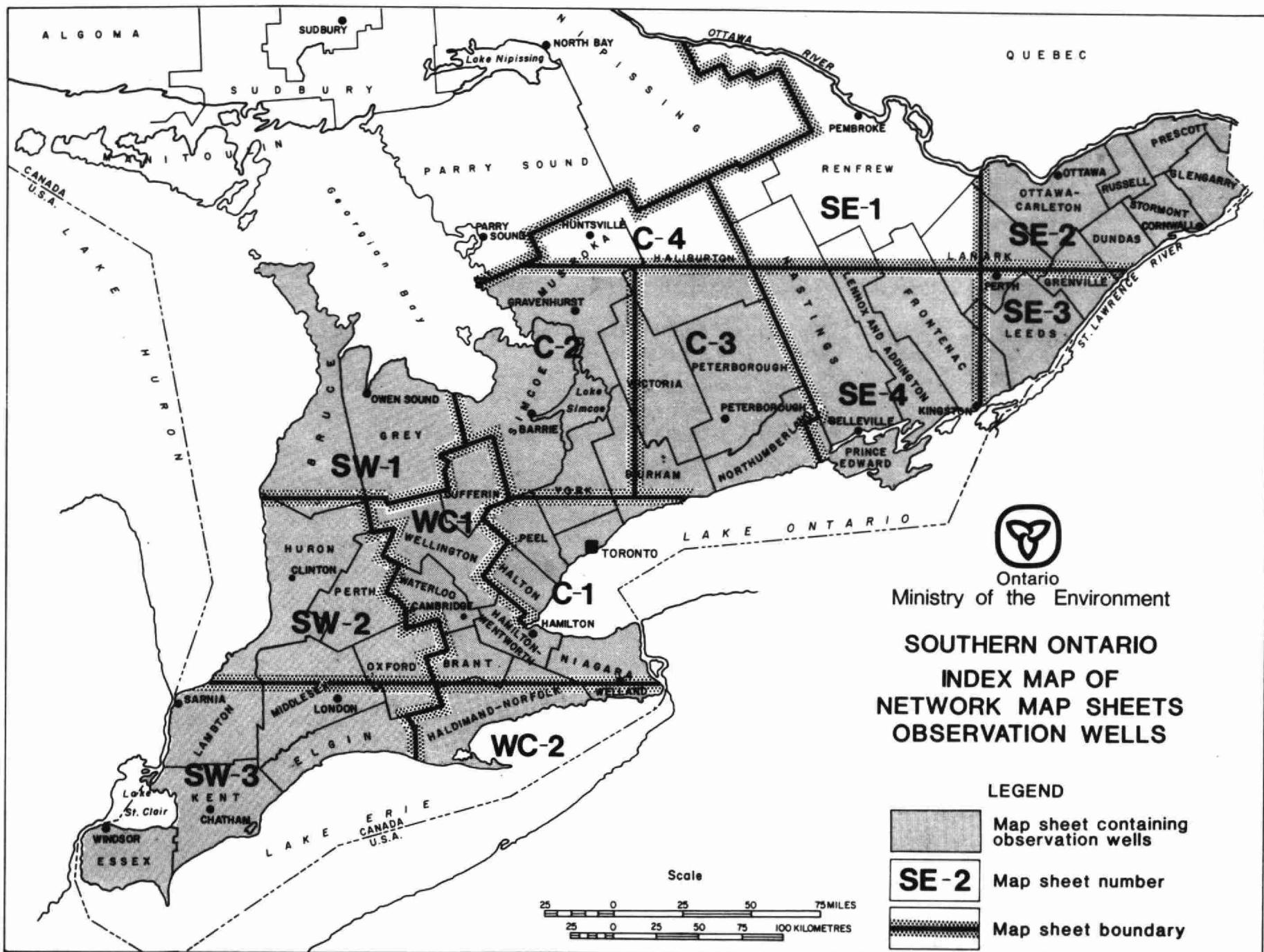
PUBLICATION OF OBSERVATION WELL DATA

The data for each of the observation wells in this atlas are published on a yearly basis in the Ministry of the Environment's "Data for Observation Wells in Ontario". This publication may be obtained in person from the Ontario Government Bookstore, 880 Bay Street, Toronto, Ontario, or by mail from the Ontario Government Publications Centre, 5th Floor, 880 Bay Street, Toronto, Ontario M5S 1Z8.

Historic information on abandoned observation wells is also available from the Ministry of Environment, Water Resources Branch, Toronto, (416) 965-6995.

ACKNOWLEDGEMENT

This atlas was prepared by the Hydrology and Monitoring Section.
The extensive cartographic effort on the part of T. Smith is
gratefully acknowledged.



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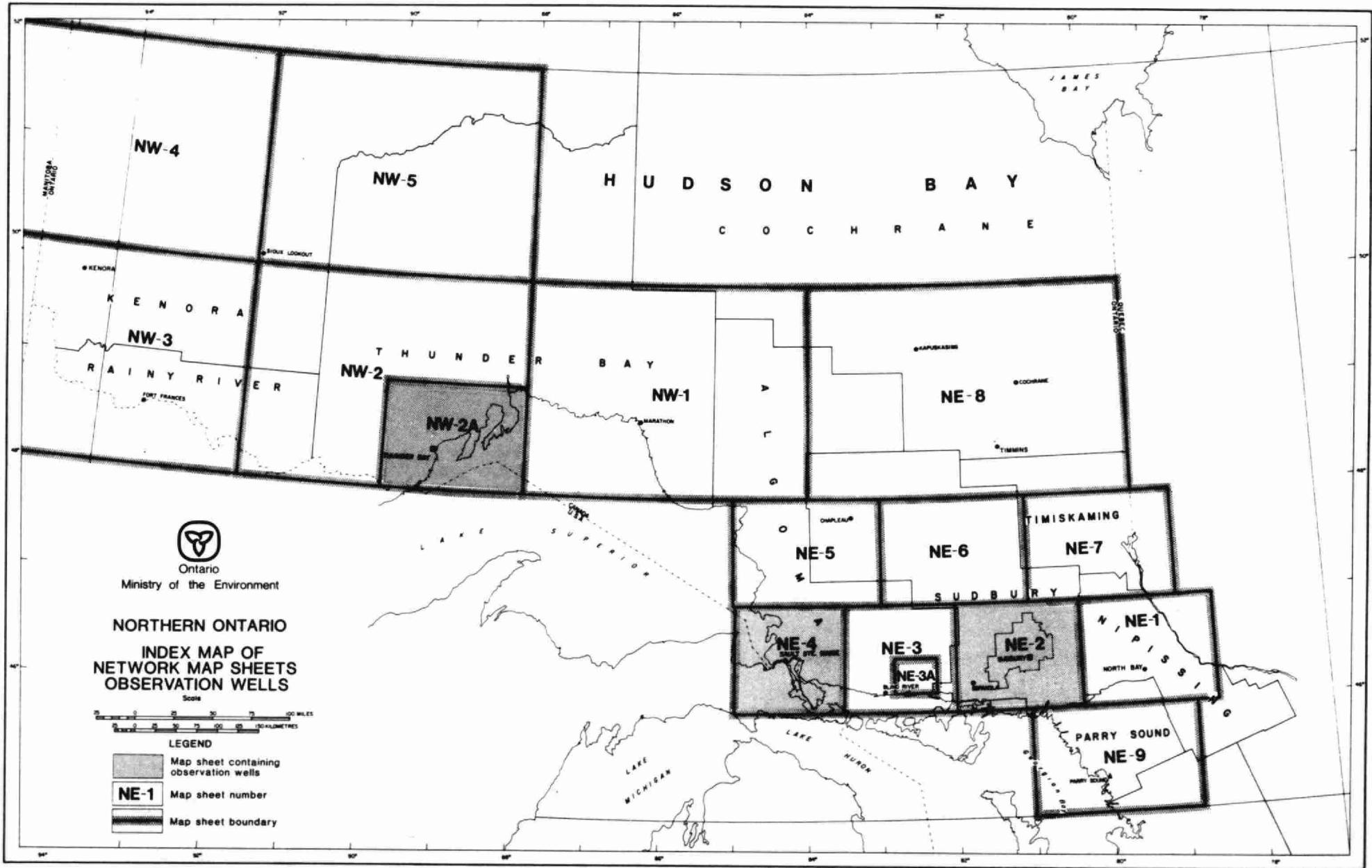
SOUTHERN ONTARIO INDEX MAP OF NETWORK MAP SHEETS OBSERVATION WELLS

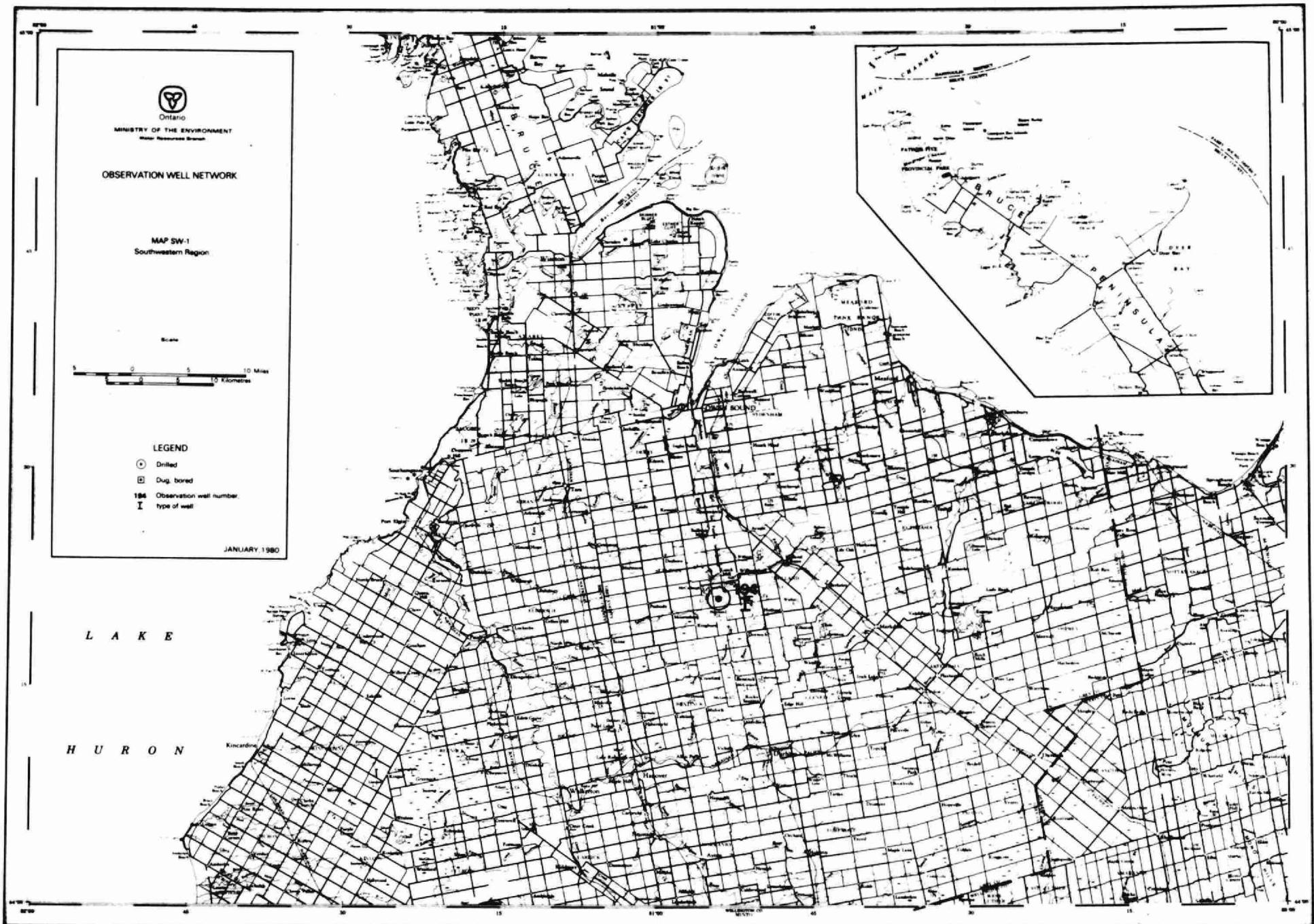
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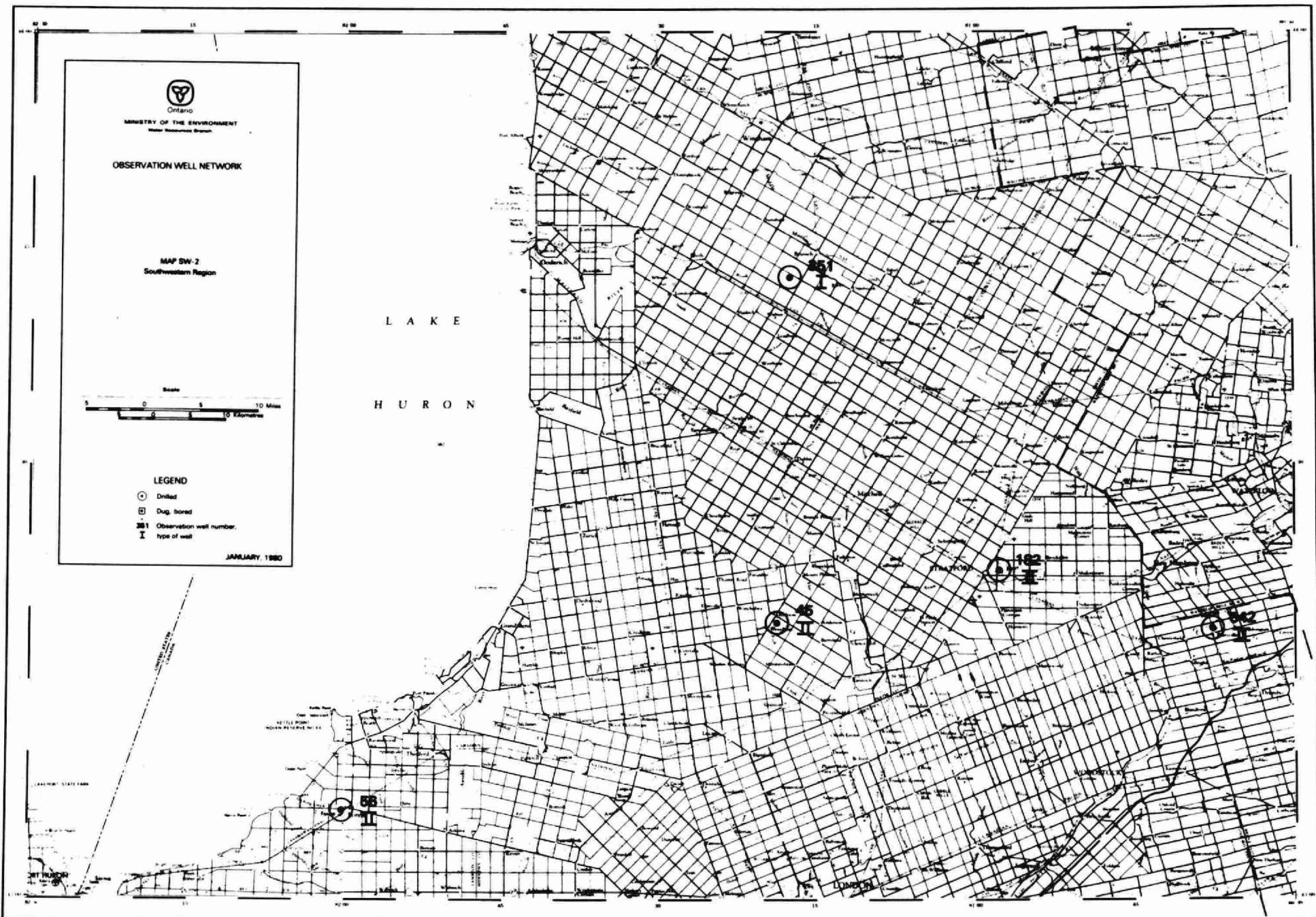
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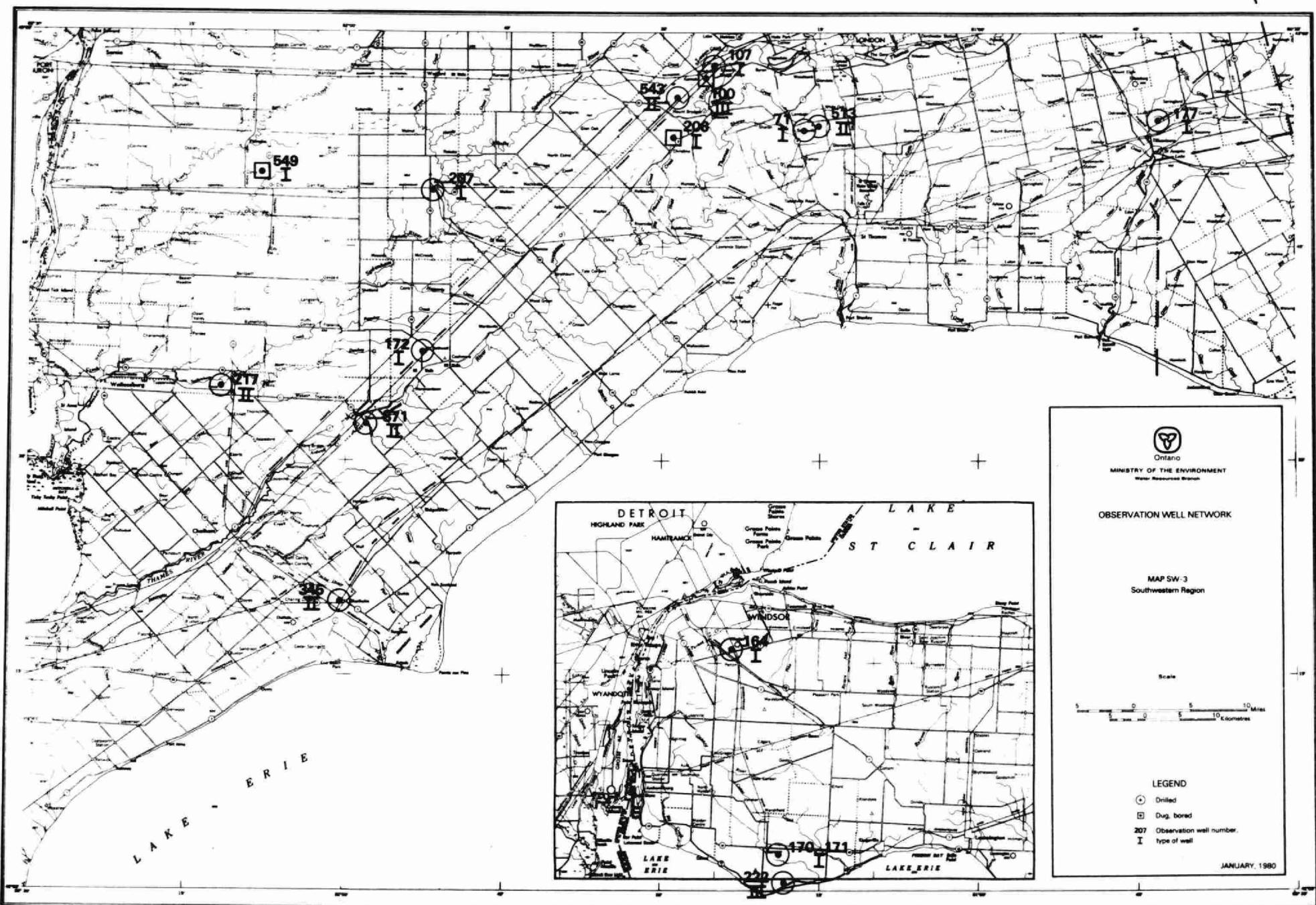
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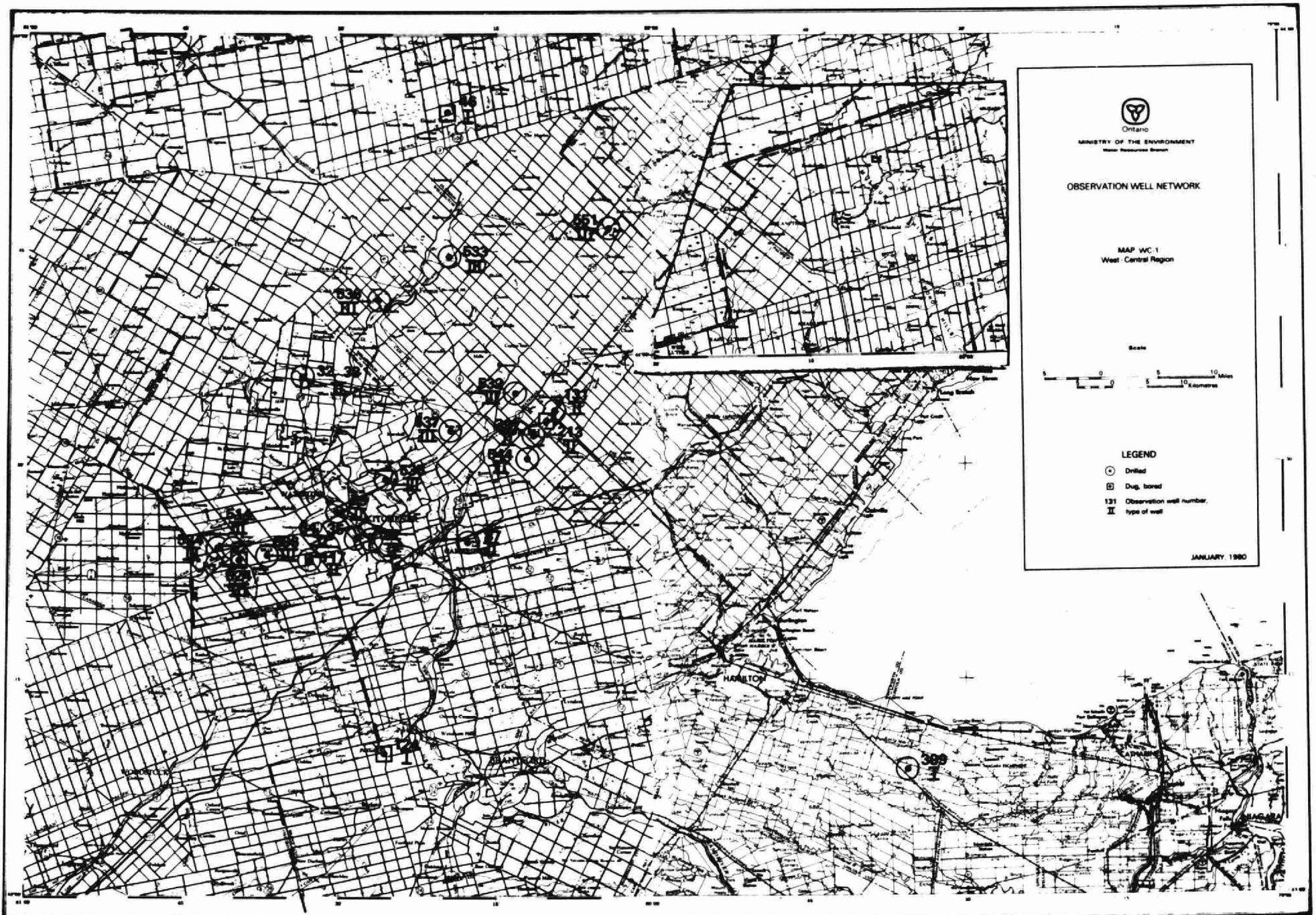
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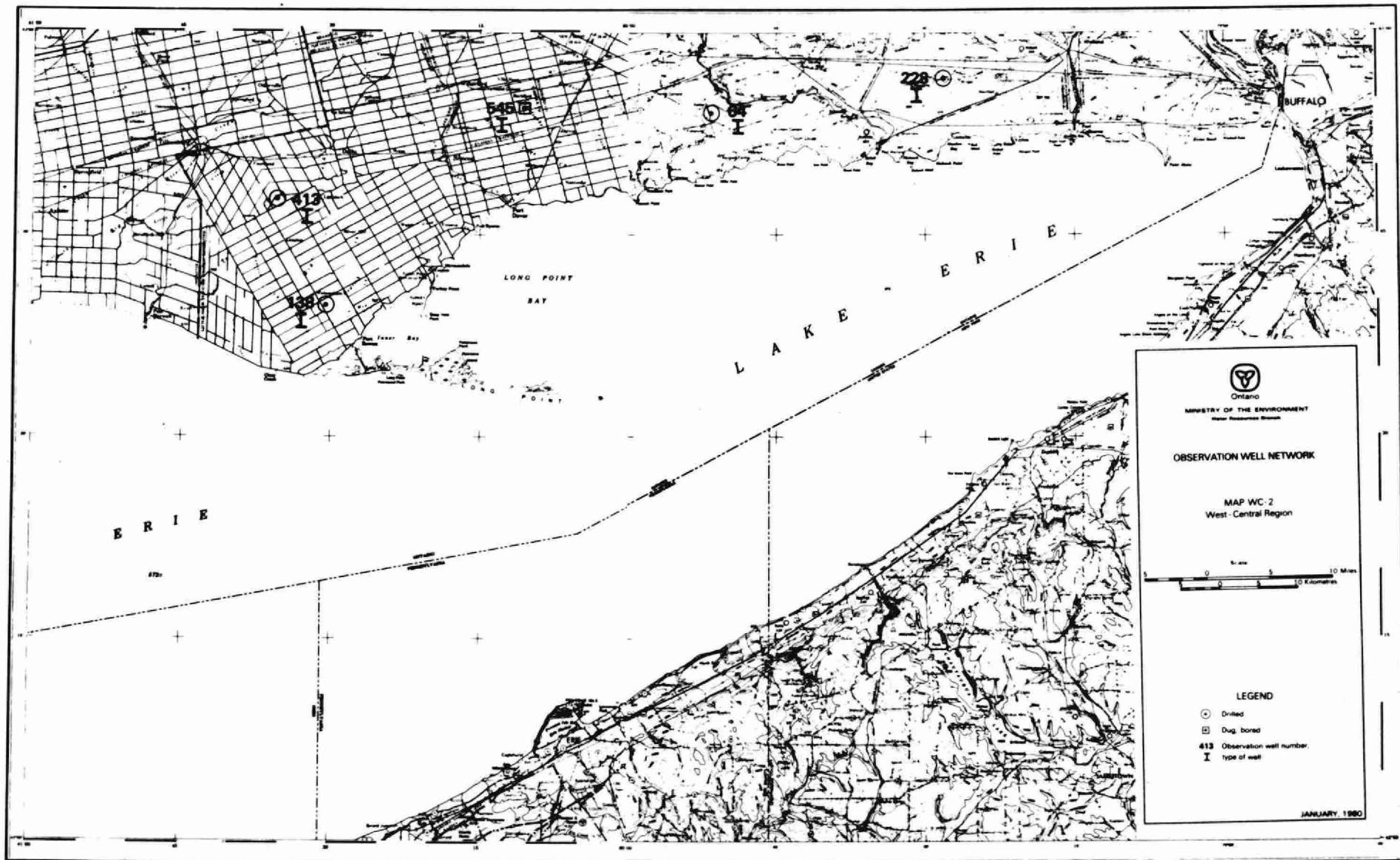


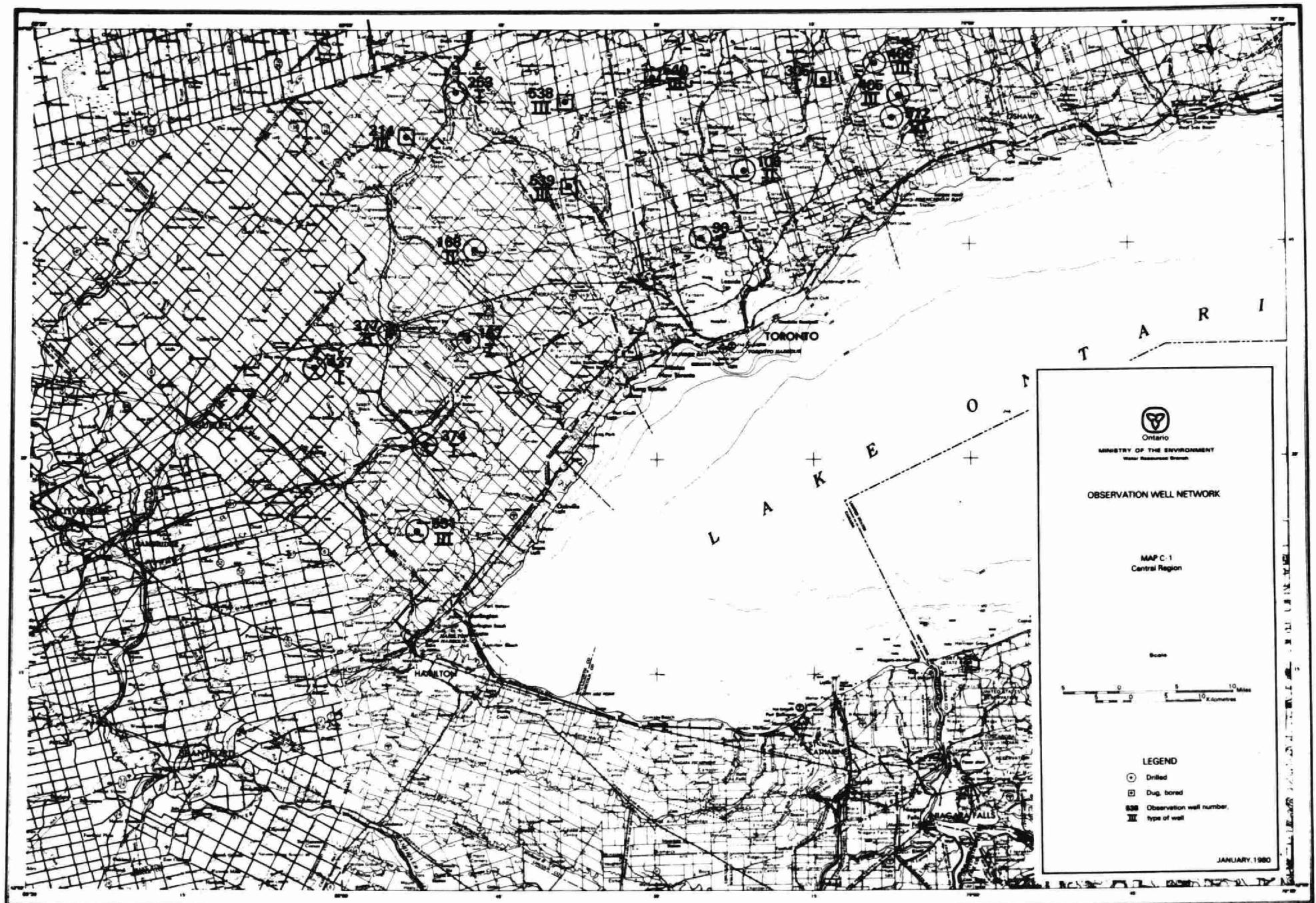


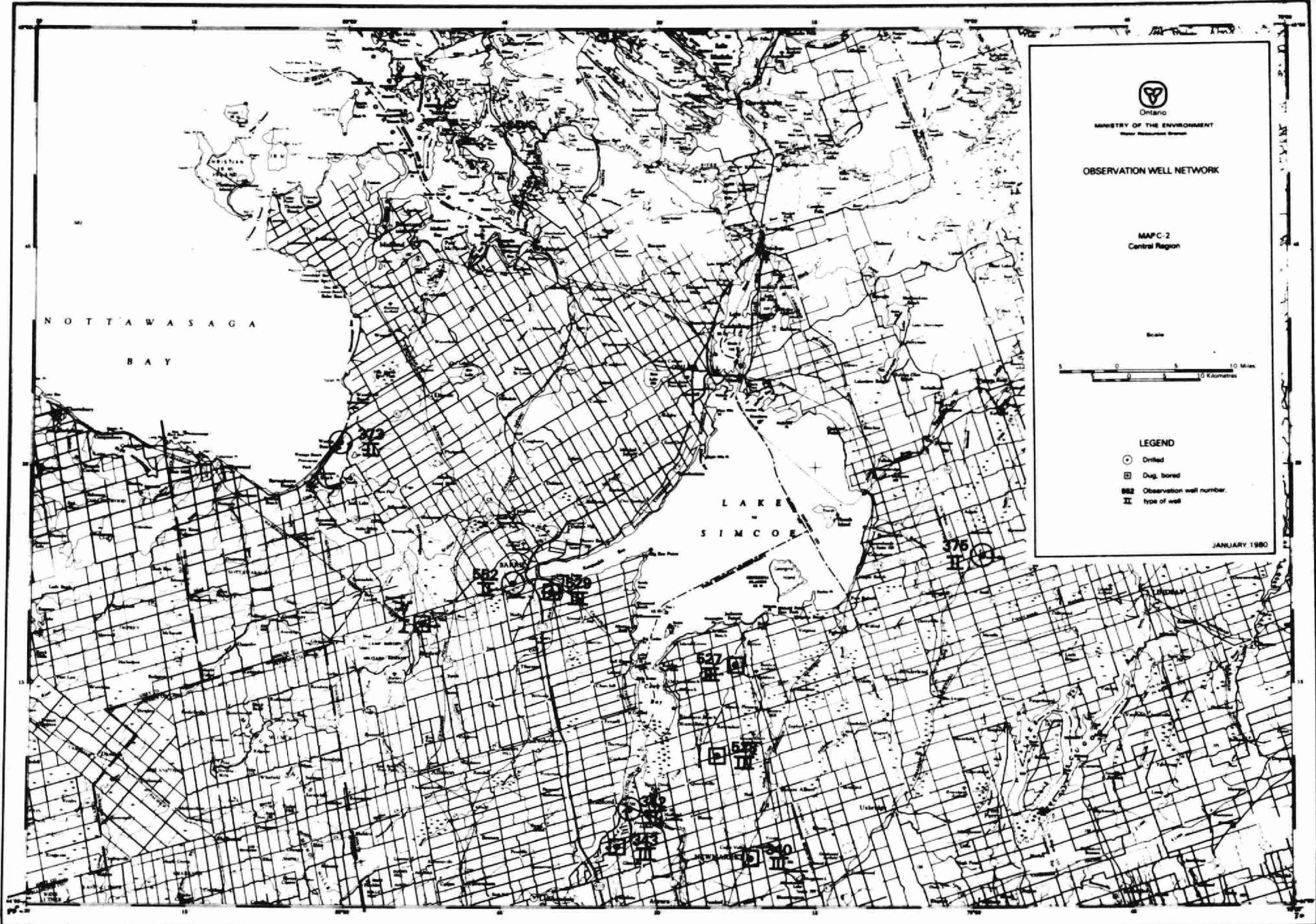


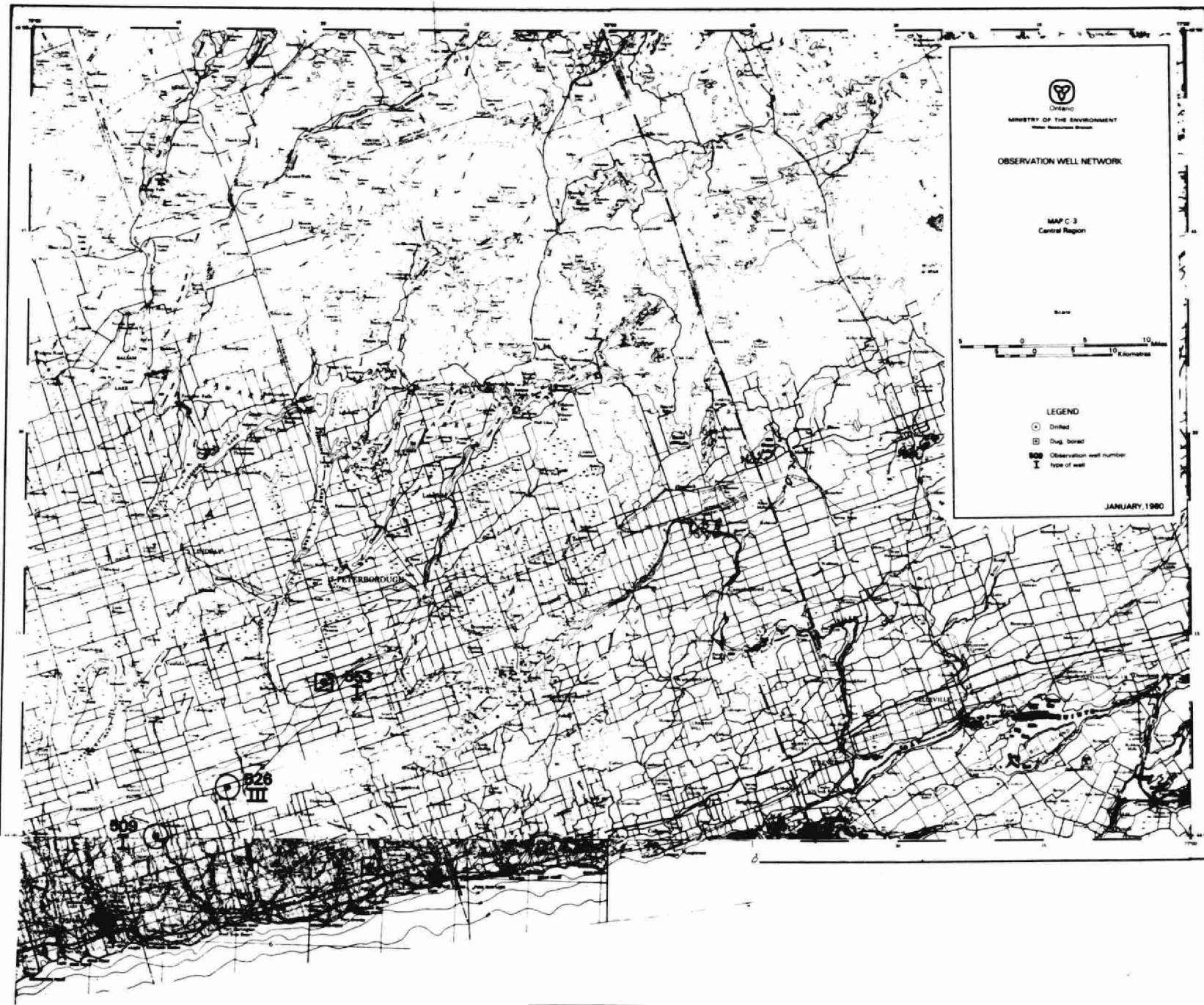


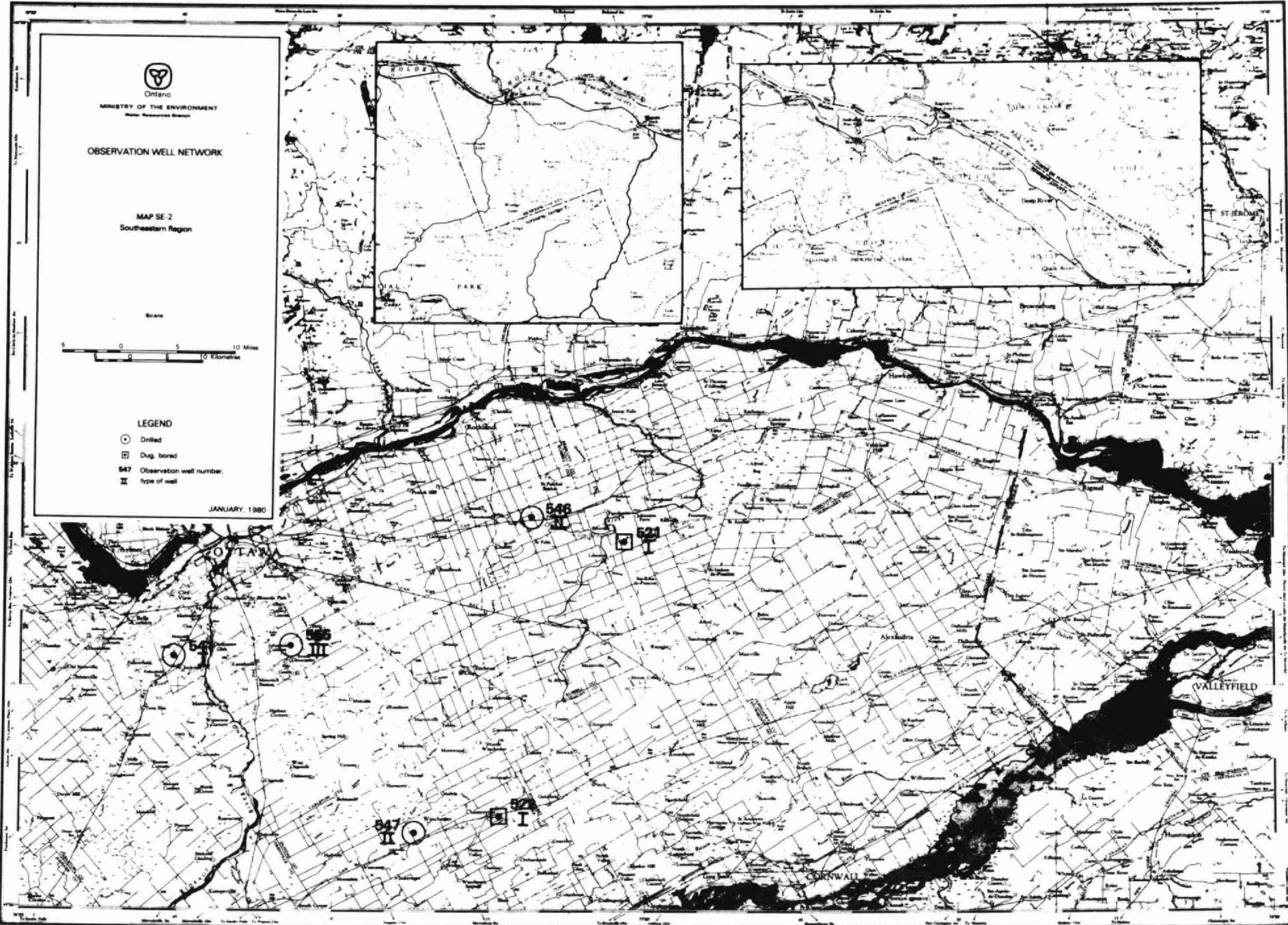


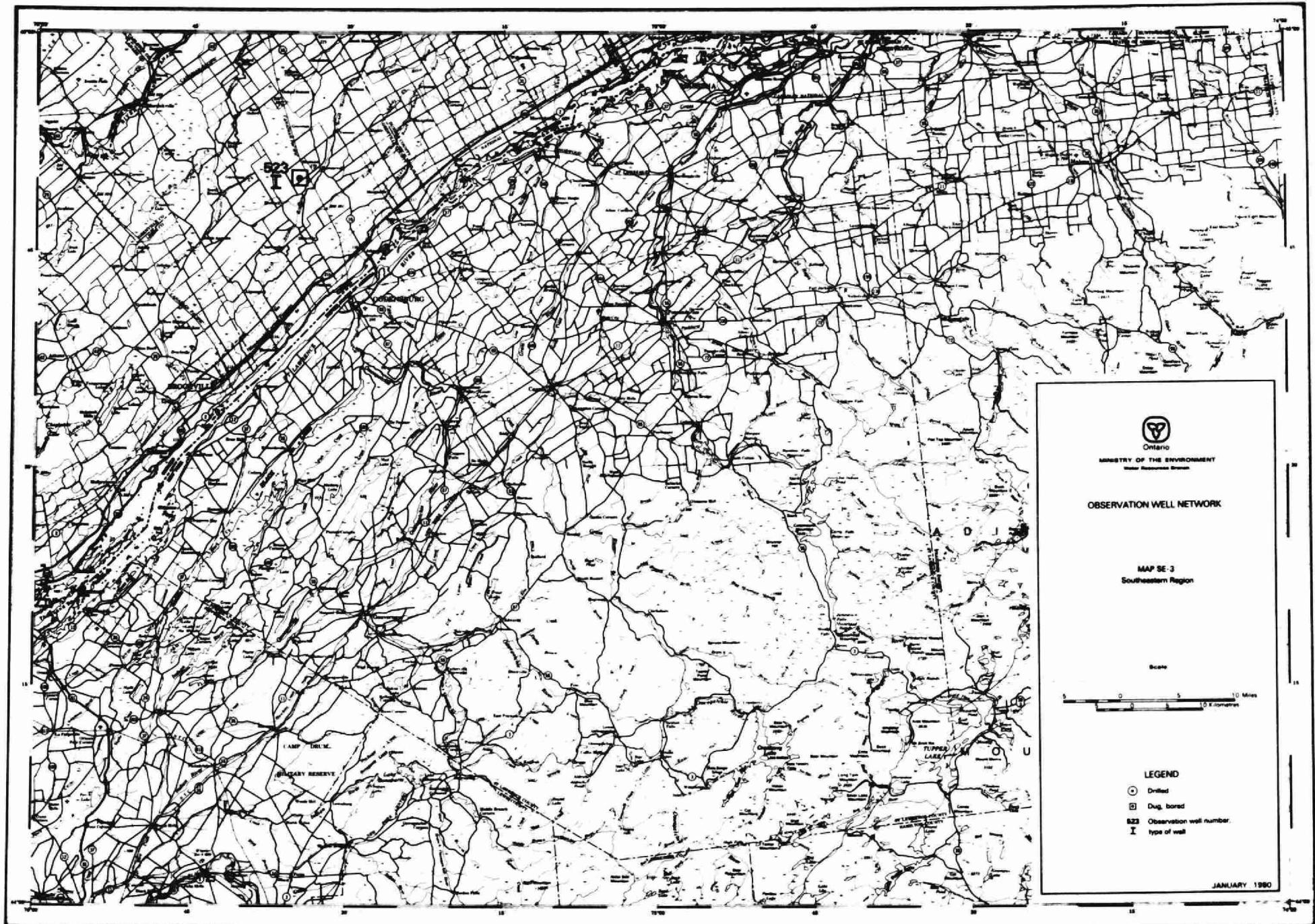


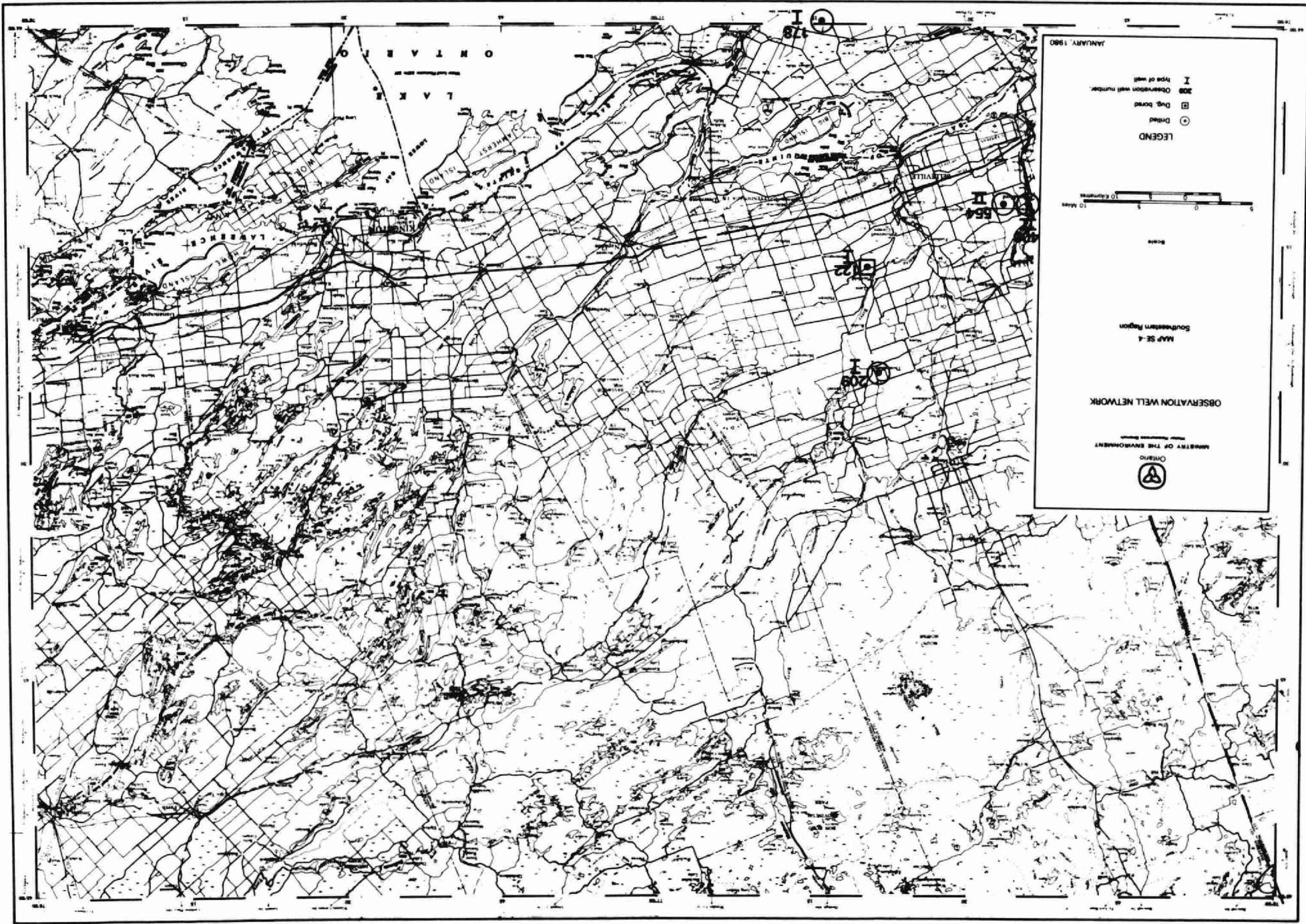


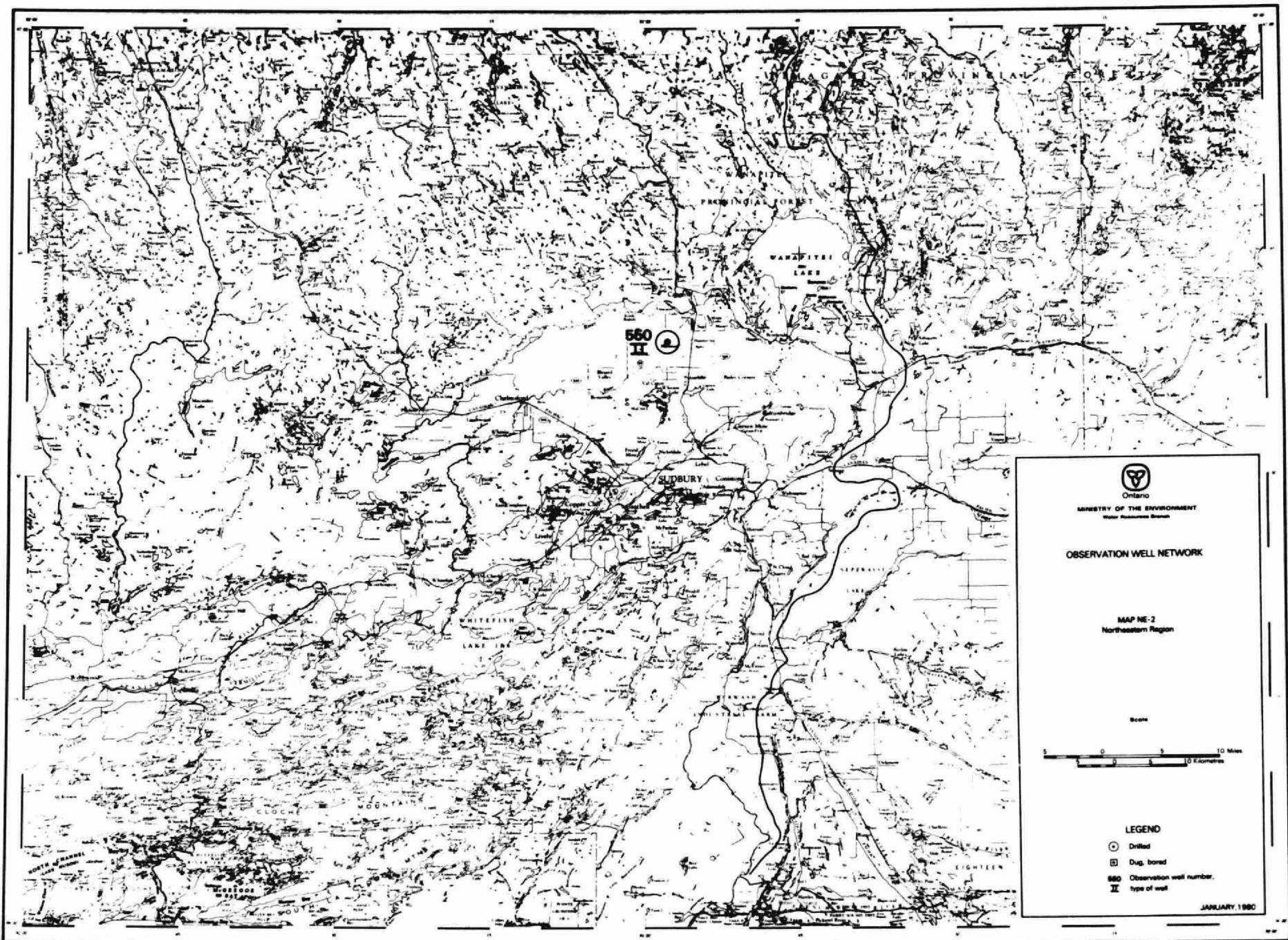


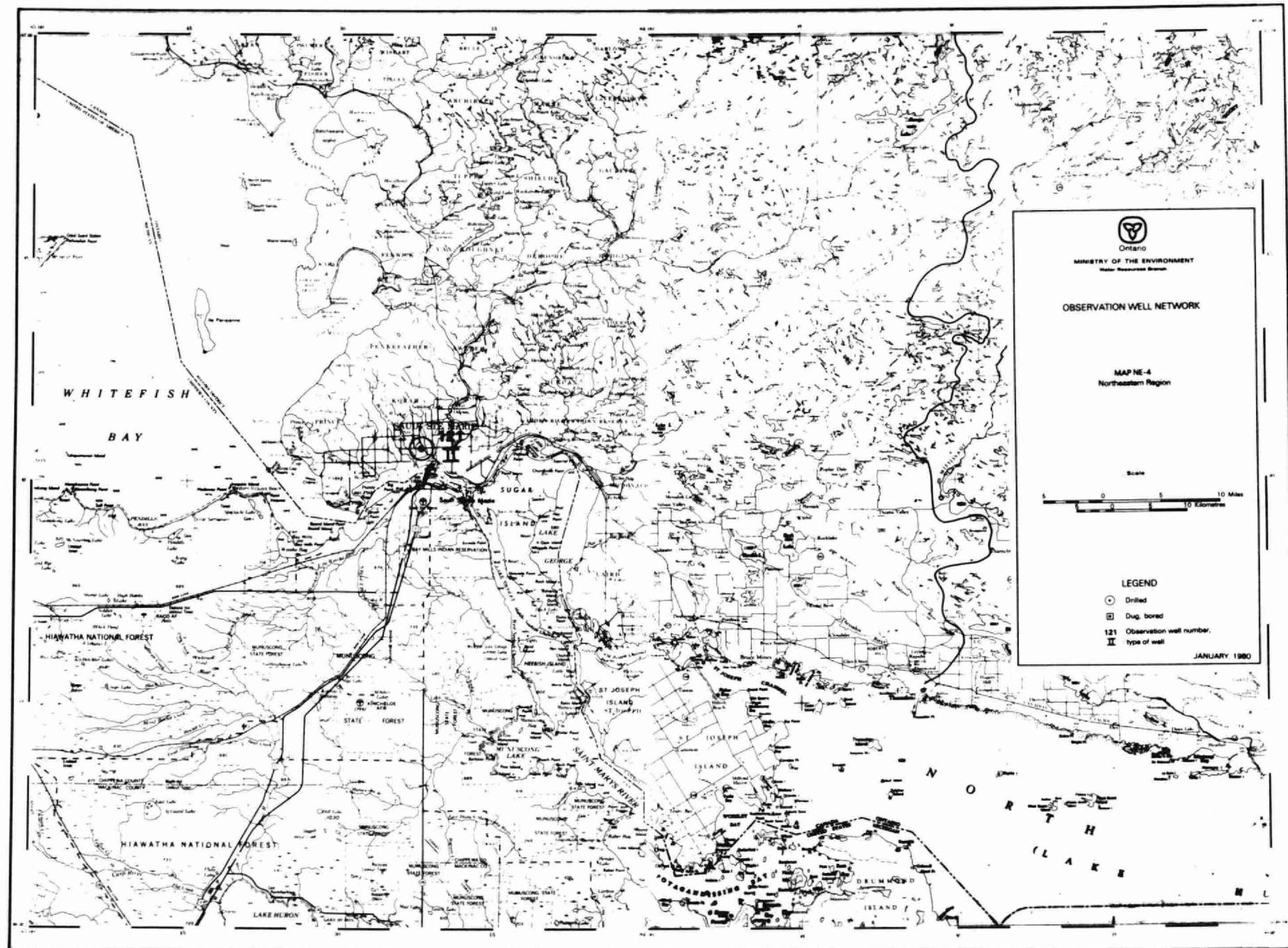


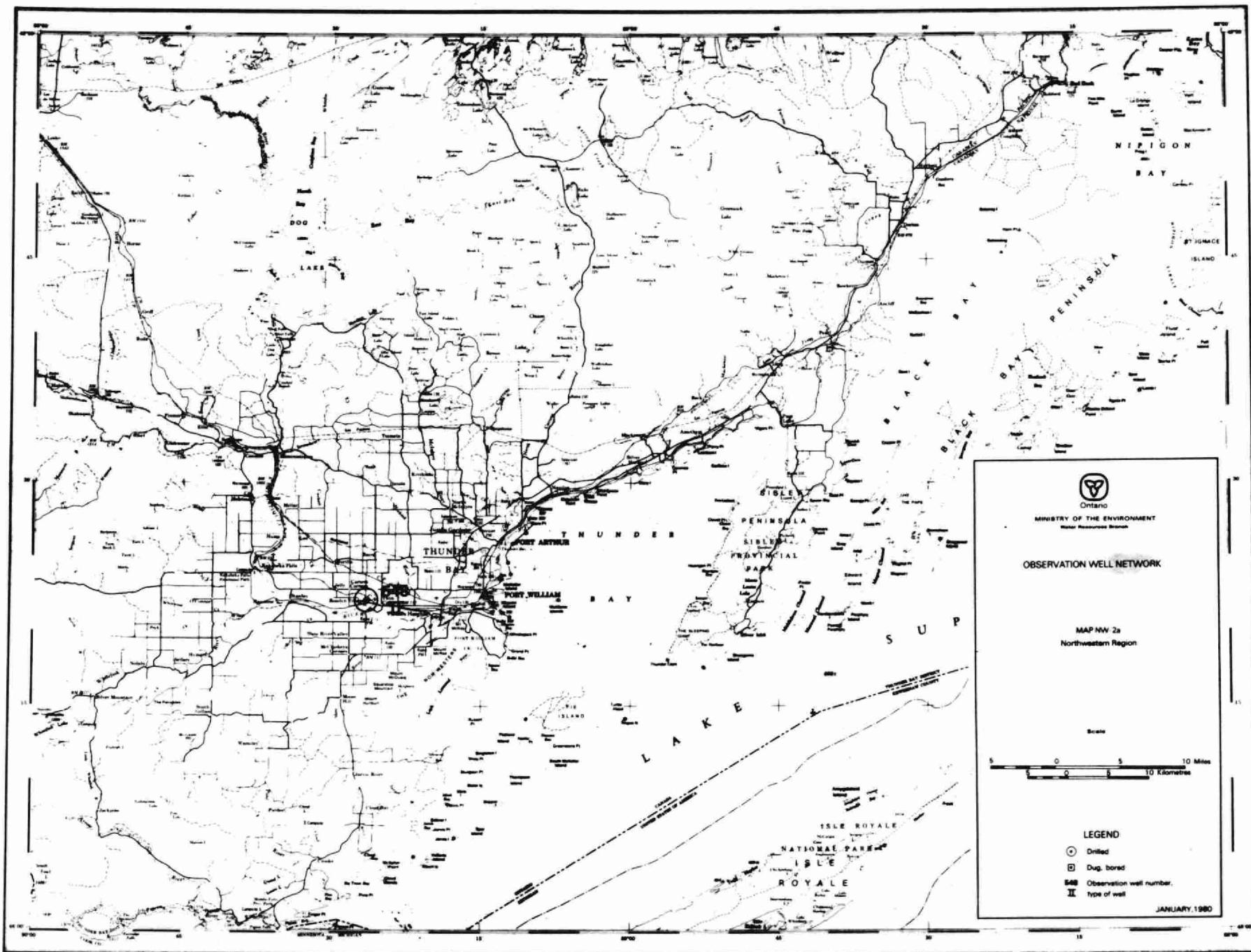












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